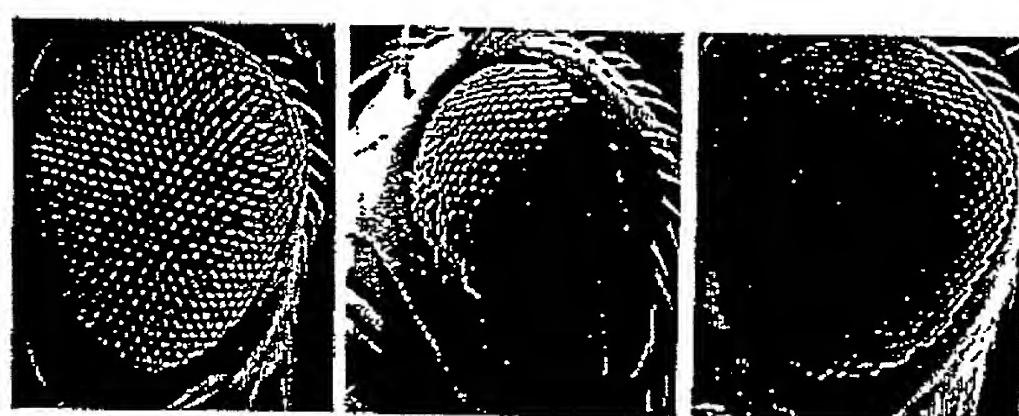


Figure 1

A



wild type

sev-wg

sev-wg, lgs^{S17}/+

B



C

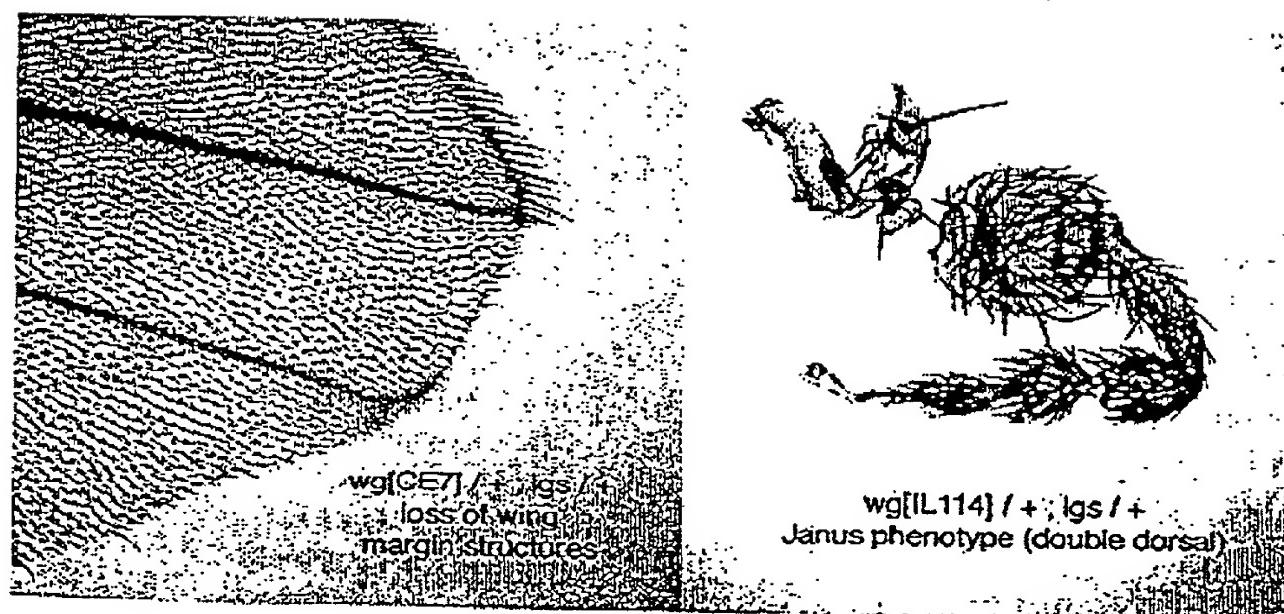


Figure 2

Figure 2: *legless*

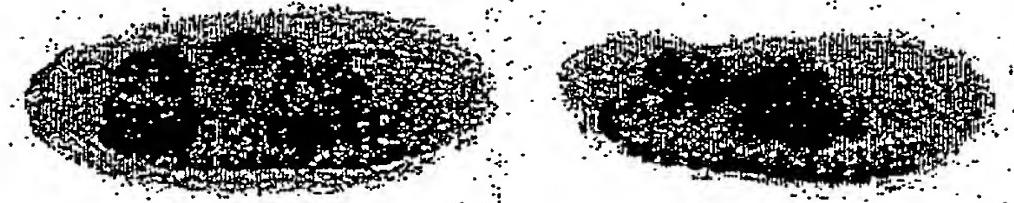
AAAAAAA 6909

Figure 3

A



yw x lgs anti-sense



yw x lgs sense

B

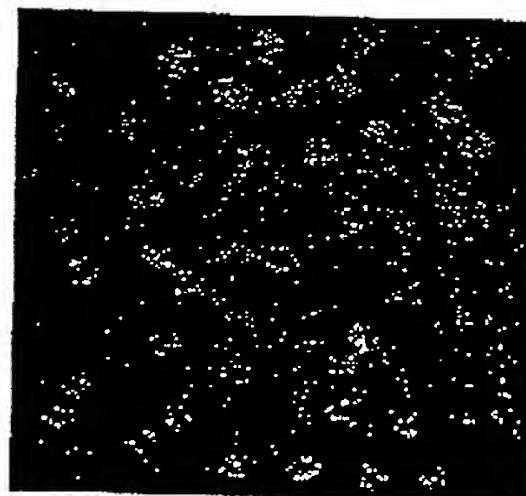
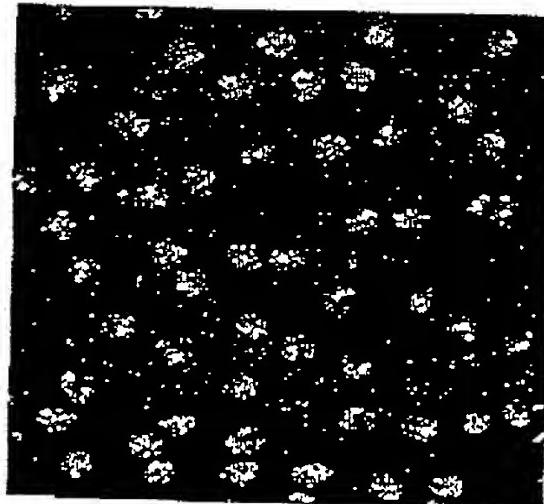


Figure 4

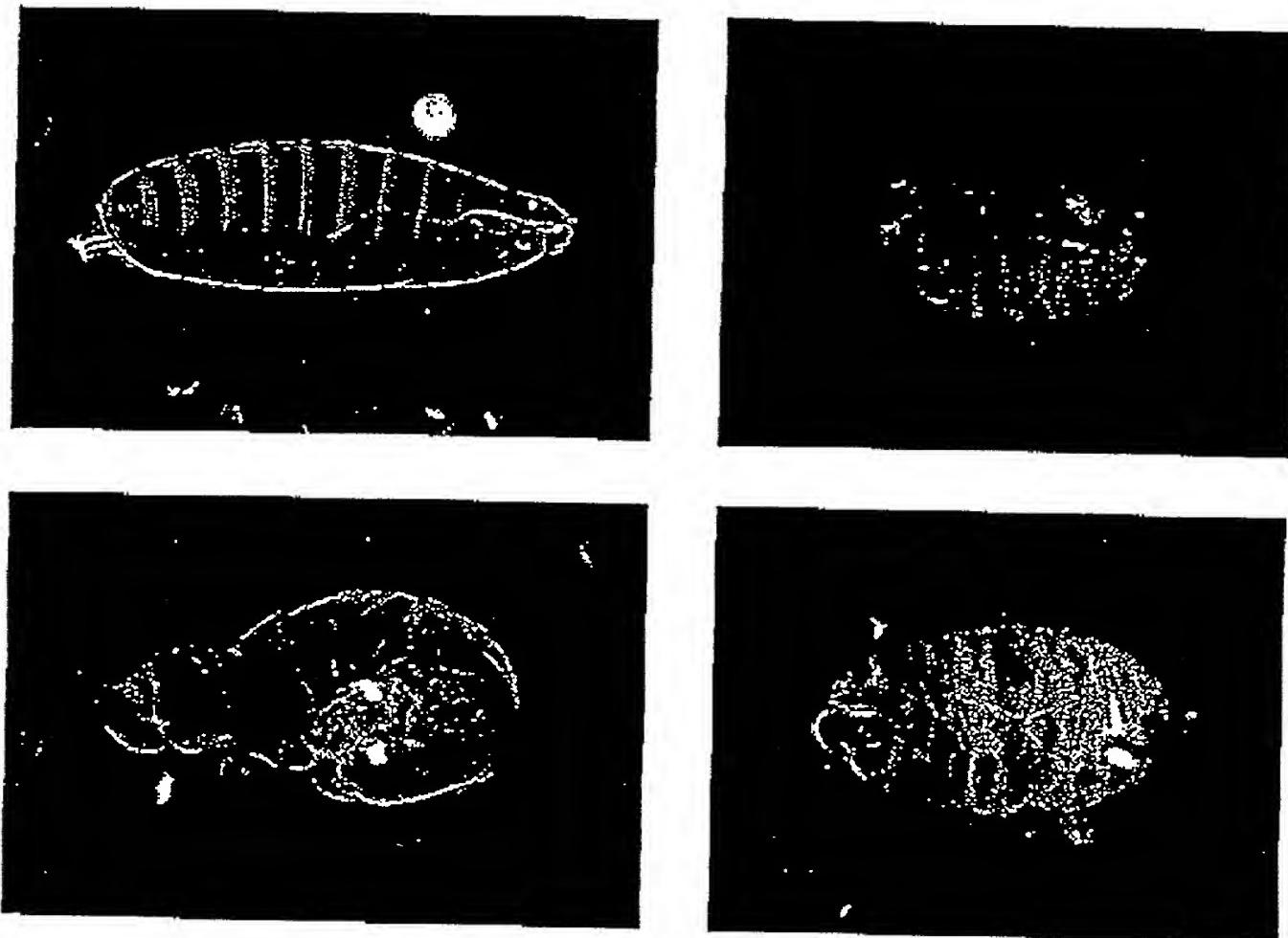
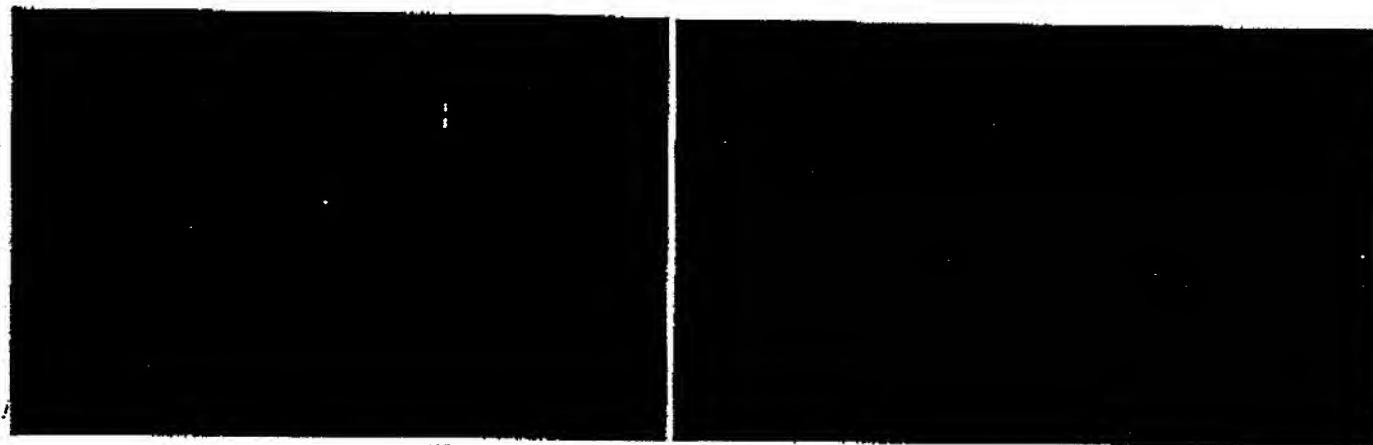


Figure 5

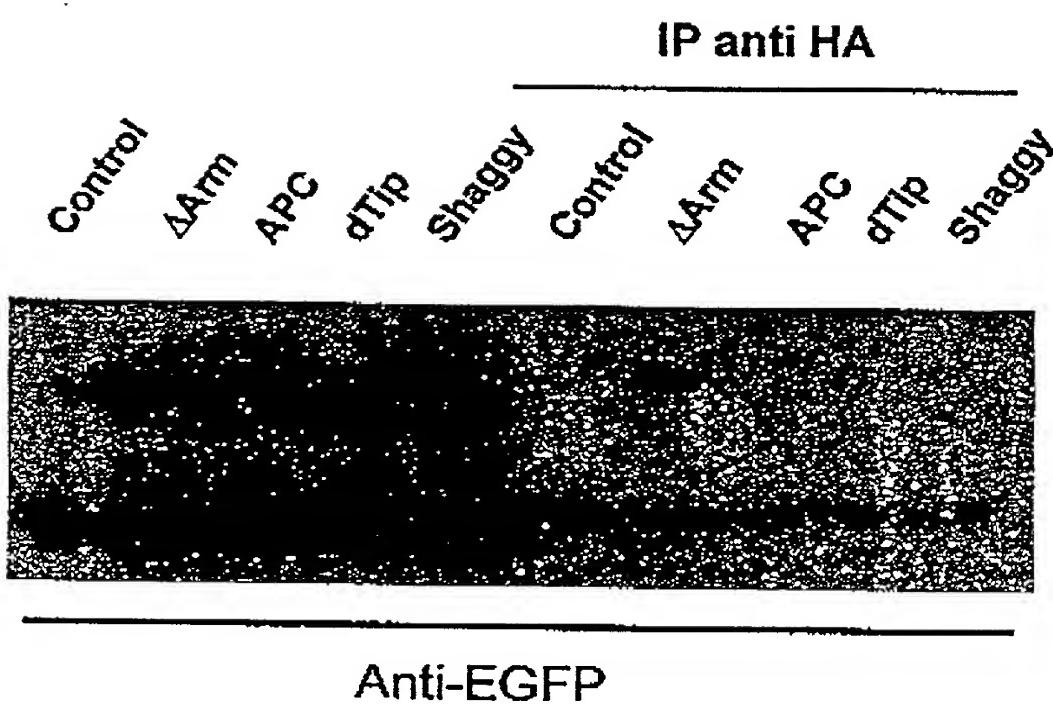
A

EGFP-Lgs

EGFP-Lgs + pcDNA3-Arm-NLS



B



Anti-EGFP

5C

		BAIT fusions: pLex						
		Lgs 1-1464	BCL9 199-392	BCL9 1-1426	Dco+	ΔArmC	ΔB-Cat	Pan
PREY fusions: pJG4-5	Igs364-555							
	Igs1-385							
	Igs1-732							
	Igs364-1090							
	Igs726-1464							
	Igs1-1464				+	+	n.d.	+
	BCL9 199- 392					+	n.d.	
	BCL91-1426					+	+	
	Dco+	+						
	DAXin	+				+		
	ΔArmC	+	+	+				+
	B-Cat	+	+	+				
	Pan	+	+			+		
	pJG4-5	+	+	+		+	+	

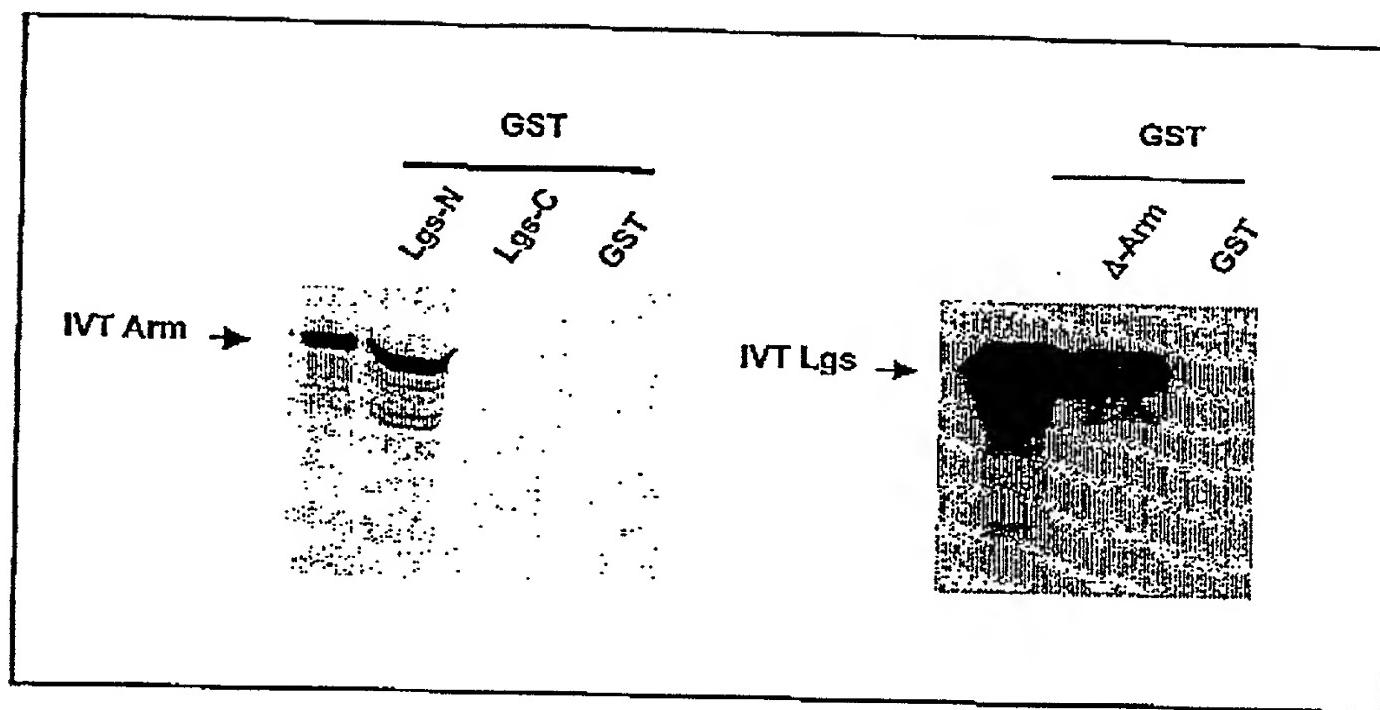
+: interaction seen in yeast two-hybrid assay

-: no interaction seen in yeast two-hybrid assay

n.d.: not done

numberings refer to amino acid positions.

5 D



5 E

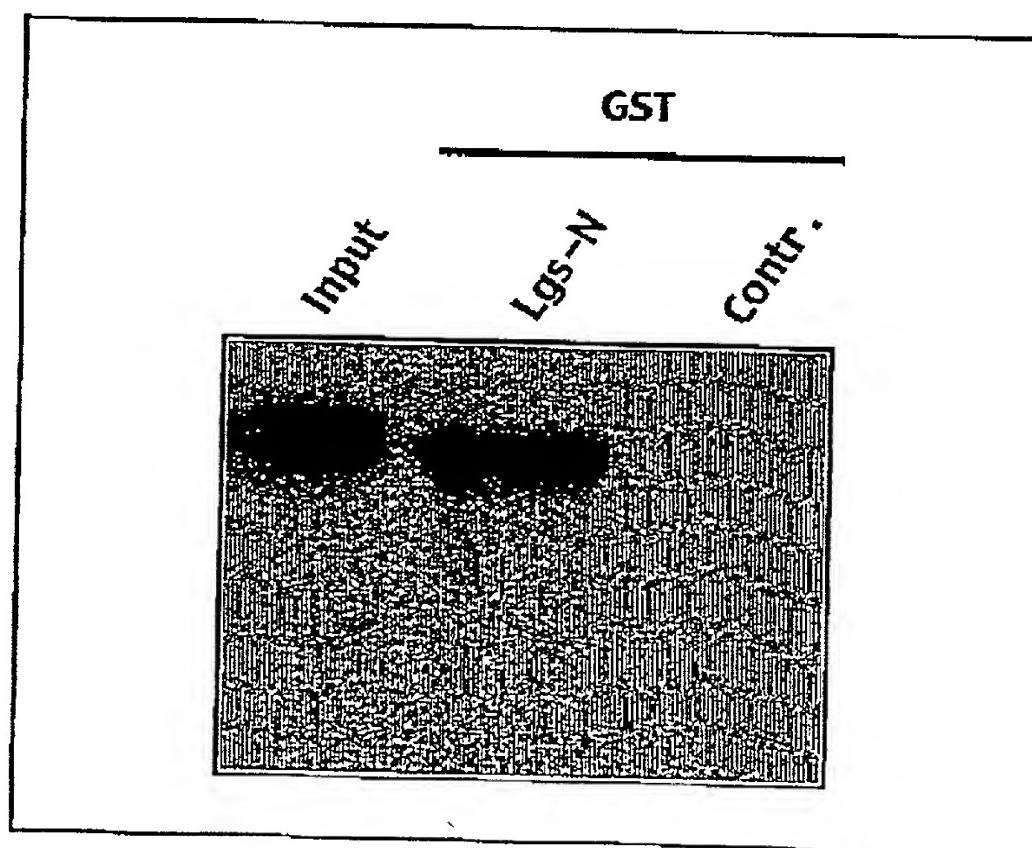


Figure 6

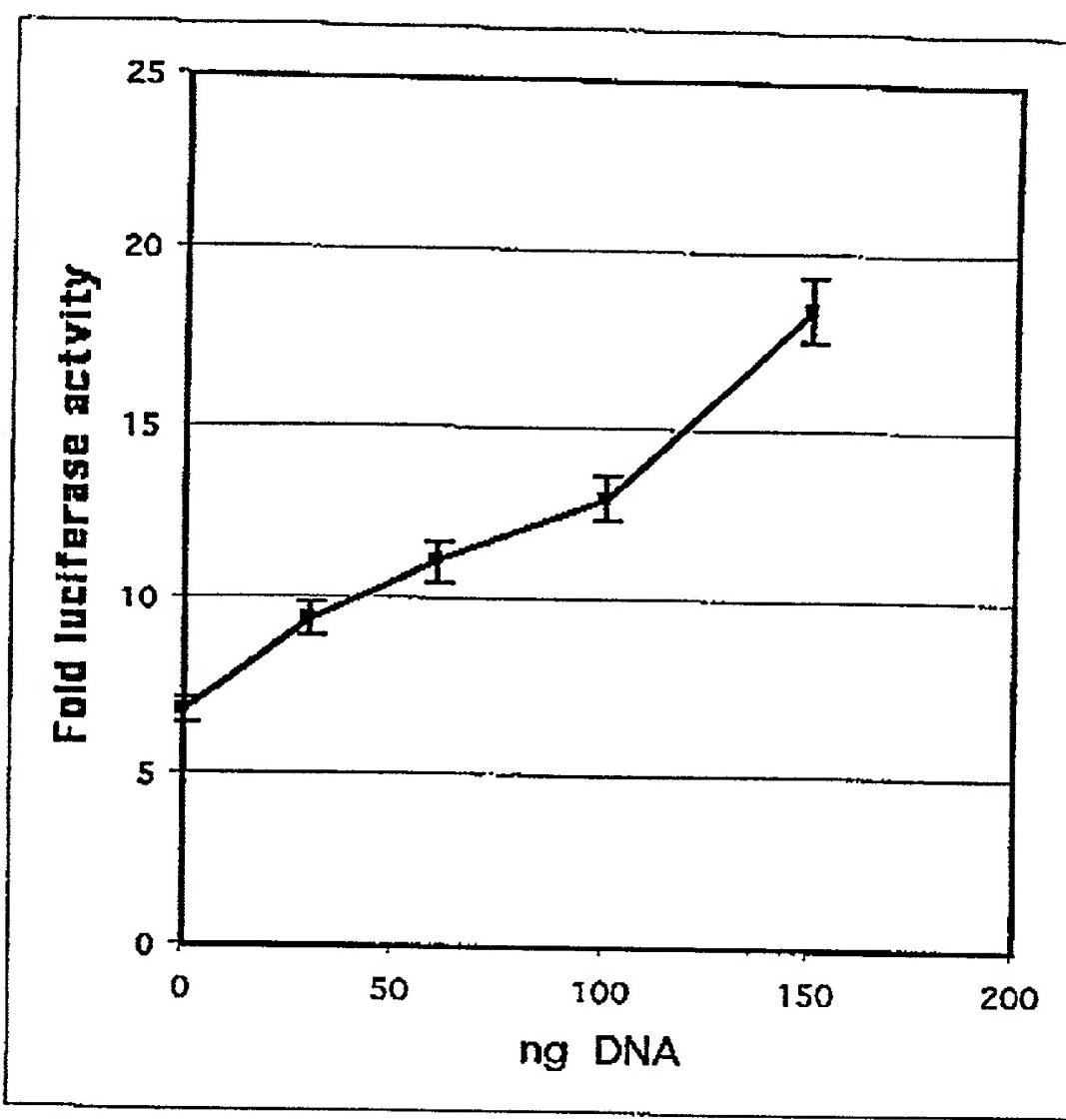
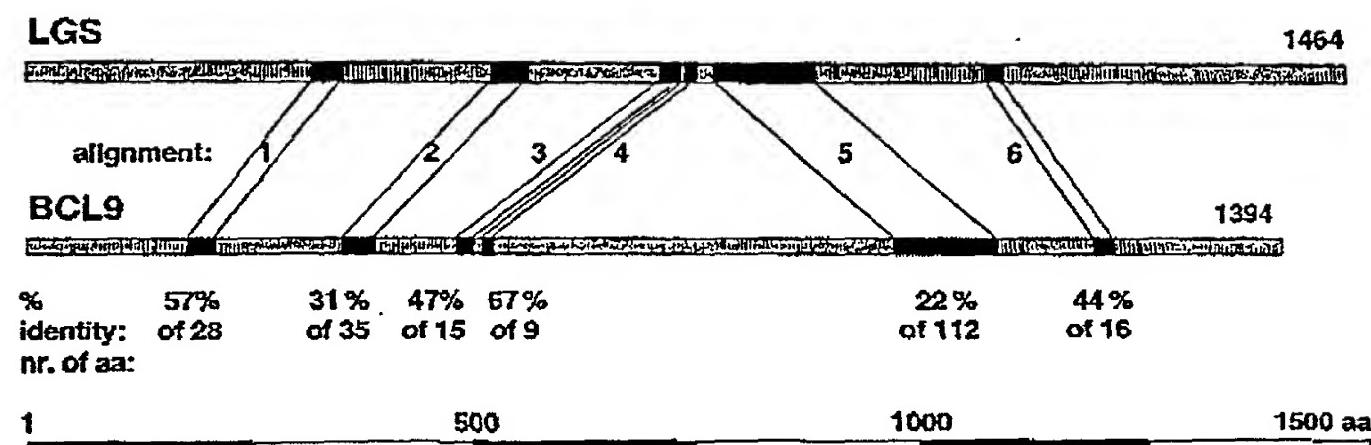


Figure 7

A



7B

Sequence homology domain 1: 57.1% identity in 28 aa

	320	330	340
LGS	IFVFSTOLANKGAESVLSGQFQTIAYH		
	...:.....:.....:: .. .:....:		
BCL9	VYVFSTEMANKAAEAVIKGQVETIVSFH		
	180	190	200

Sequence homology domain 2: 31.4% identity in 35 aa

	520	530	540
LGS	ENLTPQQRHREEQLAKIKKMNQFLFPENENSVGA		
	...:.... : ..: .. .: .. .: .. .: ..		
BCL9	DGLSQEQLEHRRERSLQTLLRDIQMLFPDEKEFTGA		
	350	360	370
			380

Sequence homology domain 3: 46.7% identity in 15 aa

	710	720
LGS	QMEWSKIQHQFFER	
	:... :.....:..:	
BCL9	QIAWLRKQEFYEEK	
	470	480

Sequence homology domain 4: 66.6% identity in 9 aa

	760
LGS	LQGPPPFYH
	...:.....:
BCL9	VRGPPPPYQ
	520

Sequence homology domain 5: 22.3% identity in 112 aa

	770	780	790	800	810	820
LGS	SASVPIATQSPNPSSEPNLSLPSPTTAAVMGLPTNSPSMDGTGSSLGSVPQANTSTVQA					
	... :..:..: .. : .. : .. : .. : .. : .. : .. : .. : .. : ..					
BCL9	GPPPPTASQPASVNIPGSLPSSTPYTIMPPEPTLSQNPLSIM-MSRMSKFAMPSSTFLYHD					
	970	980	990	1000	1010	1020
	830	840	850	860	870	
LGS	GTITVLSANKNCFQADTPSPSNQNRSRNTIGSSSVLTHNLSSNPSTPLSHLSP					
	... : .. : .. : .. : .. : .. : .. : .. : .. : .. : .. : ..					
BCL9	AIRTVASSDDDSPPAREPNLPSMINMPGMGINTQNPRIISGPNPVUPMPTLSP					
	1030	1040	1050	1060	1070	

Sequence homology domain 6: 43.8% identity in 16 aa

	1080
LGS	NPKMCVAGGPNGPPGF
	... : .. : .. : ..
BCL9	DAALCKPGPGGGPDSF
	1190
	1200

Figure 8

A

ATGCATTCCAGTAACCTAAAGTGAGGAGCTCTCCATCAGGAAACACACA
GAGTAGCCCTAAGTCAGCAGGAGGTGATGGTCCGTCCCCCTACAGTGA
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ACCTGCTCAGAAGACTCCAGCCAAGTGGTGTACGTGTTCTACTGAGA
TGGCCAATAAAGCTGCAGAAGCTGTTGAAGGGCCAGGTGAAACTATC
GTCTCTTCCACATCCAGAACATTCTAACAAACAAGAOAGAGAGAACGAC
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TCCCACAAACAGCCCCCAGCTCOGGCCAACCCAGGACCAGAACCT
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TGCGCACCACCGTCCCTGGACCGGGAGAGTOCTGGGGTAGAAAACA
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: Figure 8A

ATGGGCGCTGGTCGGGAACCTGAGTTGGGATGGTTCCTAGTGGGATGAA
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AGGTGGCCCCCAGCTCCTACAGCCAGGCGCTGCGCTGTGAATATCC
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CTTCCCCAGAACCCACTCTCTATTATGATGTCGAAATGTCAGTTGC
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GCTCAGATGACGACTCCCCCTCAGCTCGTTCTCCCAACTGCCATCAATG
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TCCTATCATGGGGCATGGGTCCAGGAGCCACCGATGGTACCTCAAGGAC
GGATGGGCTTCCCCAGGGCTTCCCTOCAGTACAGTCTCCCCCACAGCAG
GTTCCATTCCCCCACAATGGCCOCAGTGGGGGGCAGGGCAGCTTCCAGG
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CCCAAAGTTCAGCAGATGCAGCACTTGCAAGCCTGGAGGCCCCGGGGT
CCTGACTCCTTCACTGTCCTGGGAACAGCATGCGCTGGTGTACAGA
CCAGATCTGCAGGAGGTACCGACCTGGAGCCACCGAACCTGAGT
TTGATCTATCCCCCATTATTCCATCTGAGAAGGCCAGCCAGCCTGCAA
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ACCTGGGTTTACACATGCAGGGATGATGGCGAACAGCCCCCAGAA
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ACCACCAAGCCTTCTCCAACAAAGGCATGATGGGACCTCACCATCGGATGA
TGTCAACAGCACAATCTACAATGCCCGGCCAGGCCACCGCTGATGAGCAAT
CCAGCTGCTGOOGTGGCATGATTCCTGGCAAGGATGGGGCGCTGCCGG
GCTCTACACCCACCCCTGGCGCTGTGGGCTCTCCAGGCATGATGATGTCCA
TGCAGGGCATGATGGGACCCAAACAGAACATCATGATCCCCCACAGATG
AGGCCCCGGGGCATGGCTGCTGACGTGGGATGGTGGATTAGCCAAGG
ACCTGGCAACCCAGGAAACATGATGTTTAA

BASLER ET AL.

Figure 8B

B

MHSSNPKVRSSPSGNTQSSPKSKQEVMVRPPTVMSPSGNPQLDSKFSNQG
KQGGSAQSOPSPCDSKSGGHTPKALPGPGGSMGLKNGAGNGAKGKGKRE
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PRSSTPSHGOTTATEPTPAQKTPAKVYVFSTEMANKAAEAVLKGQVETI
VSFHIQNISNNKTERSTAPLNTQISALRNDPKPLPQQPPAPANQDQNSSQ
NTRLQPTPPIPAPAKPAAPPRPLDRESPGVENKLPSVGSPASSTPLPP
DGTGPNSTPNRAVTPVSQGSNSSSADPKAPPVVVSSGEPPTLGENPDG
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NSQSGTIGPDHLDHMTPEQIAWLKLQQEFYEEKARKQEQQVQQCSLQDM
MHQHGPRGVWRGPPPYQMTPSEGWAPGGTEPFDGINMPHSLPPRGMA
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GIRPSMEMNRMIPGSQRHMEPGNNPIFPRIPVEGPLSPSRGDFPKGIPPO
MGPGRELEFGMVPSPGMKGDVNLNVNMGNSNSQMIPOKMREAGAGPEEMLKL
RPGGSDMLPAQKIMVPLPFGEHPOQLEYGMGPRPFLPMSQGPGNSGLRNIL
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YPPRGEVPGPKQPGPGPGFSHMQGMMGEQAPRMGLALPGMGGPGPVGTP
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Figure 9

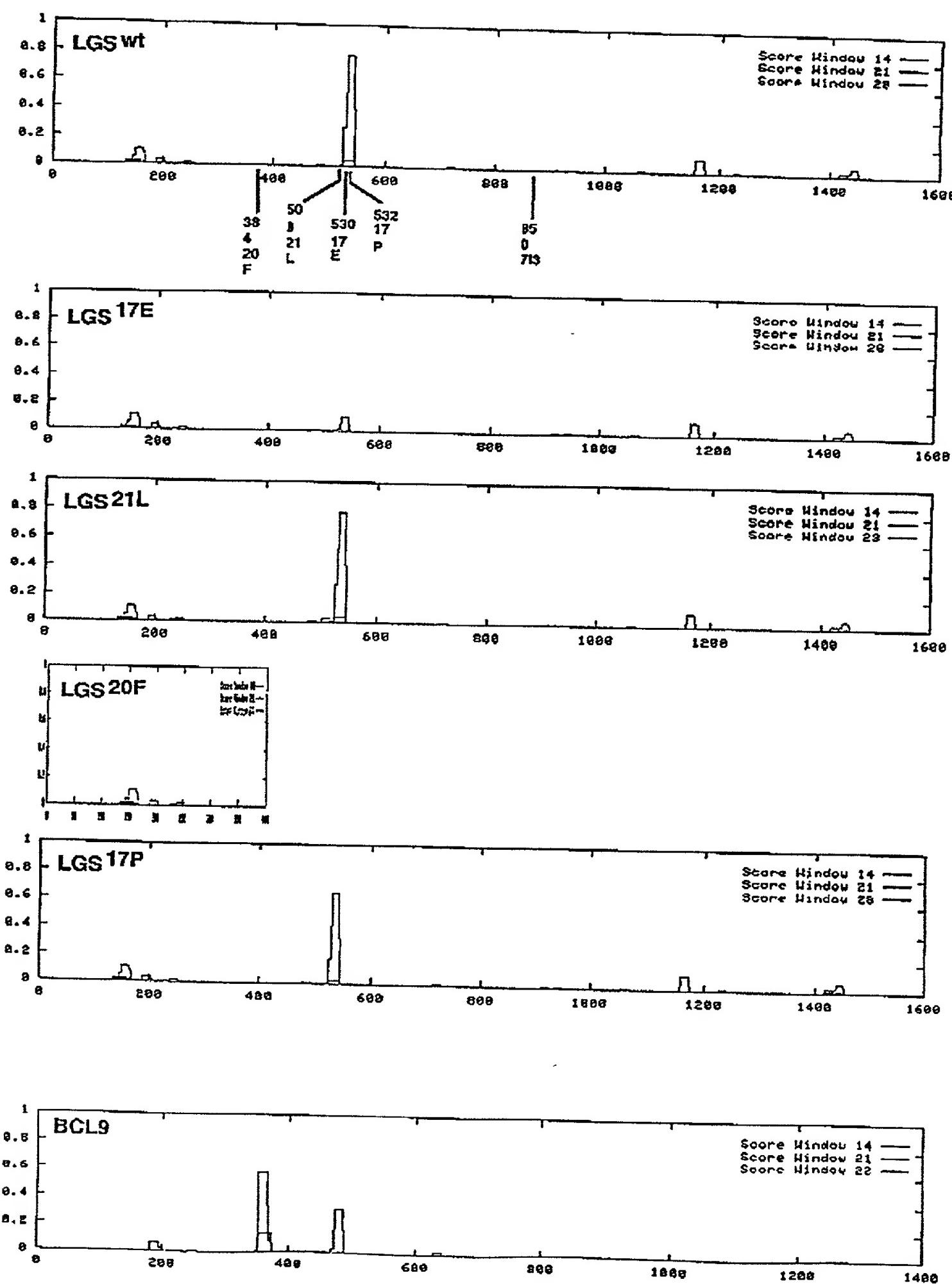


Figure 10

A

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AATGTGAACCAAGGACCCACCTGCAACGTGGCTGAAGGGCGTGGGGCGGGAAACCAT
GGGGCCAAGGCCAACCAAGATCTGCCTAGCAACTCAAGTCTGAAGAACCCCCAGGCAGGG
GTGCCCTTCAGCTCGCTCAAGGCAAGGTGAAGAGGGACCGGAGTGTGTCTGGAC
TCTGGAGAGCAGCGAGAGGCTGGGACCCATCCCTGGATTCAAGAGGCCAAAGAGGTGGCG
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CTGTGCTGCCGTGTGAGGTGCAGGAAACACCTGAGGCATGGAAACCTGACGGTGC
TAC

10 20 30 40 50 60 70 80 90

Figure 10

GGGGGGCTGCTGGAGCATCTGCCAGCCCAGAGCACAAGAAAGCAACCAACAAATTCTGG
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GCGCGATTCAAGAAATCCATGGTGAAGGTTGGATTCTATGAAGAAAAGGAGGATAAA
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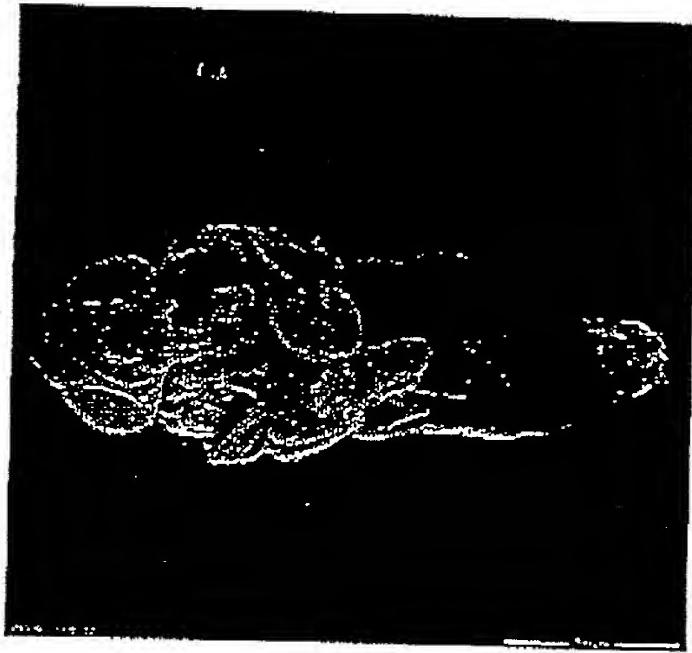
B

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GDRPLWWIPGTRAMAPAQRCPCLCRQTFFCGRGHVYSRKHQRLKEALER
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GGLLEHLASPEHKKATNKFWWENKAEVQMKEKFLVTPQDYARPKKSMVKG
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100 90 80 70 60 50 40 30 20 10

Figure 11

A



B

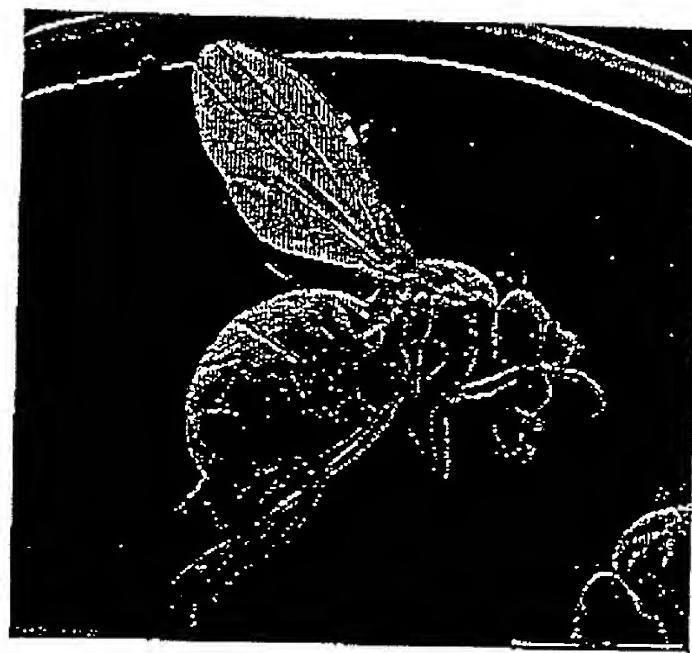


Figure 12

A

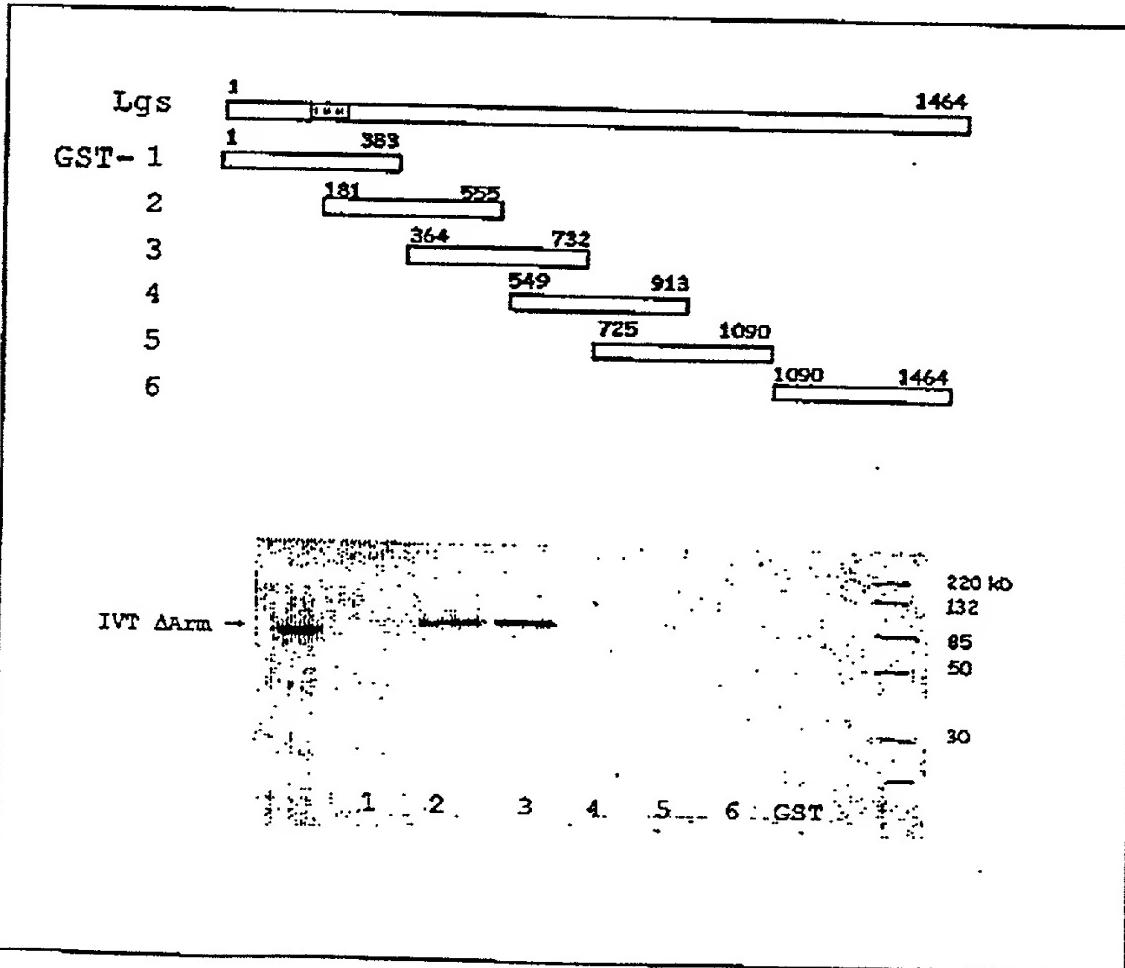
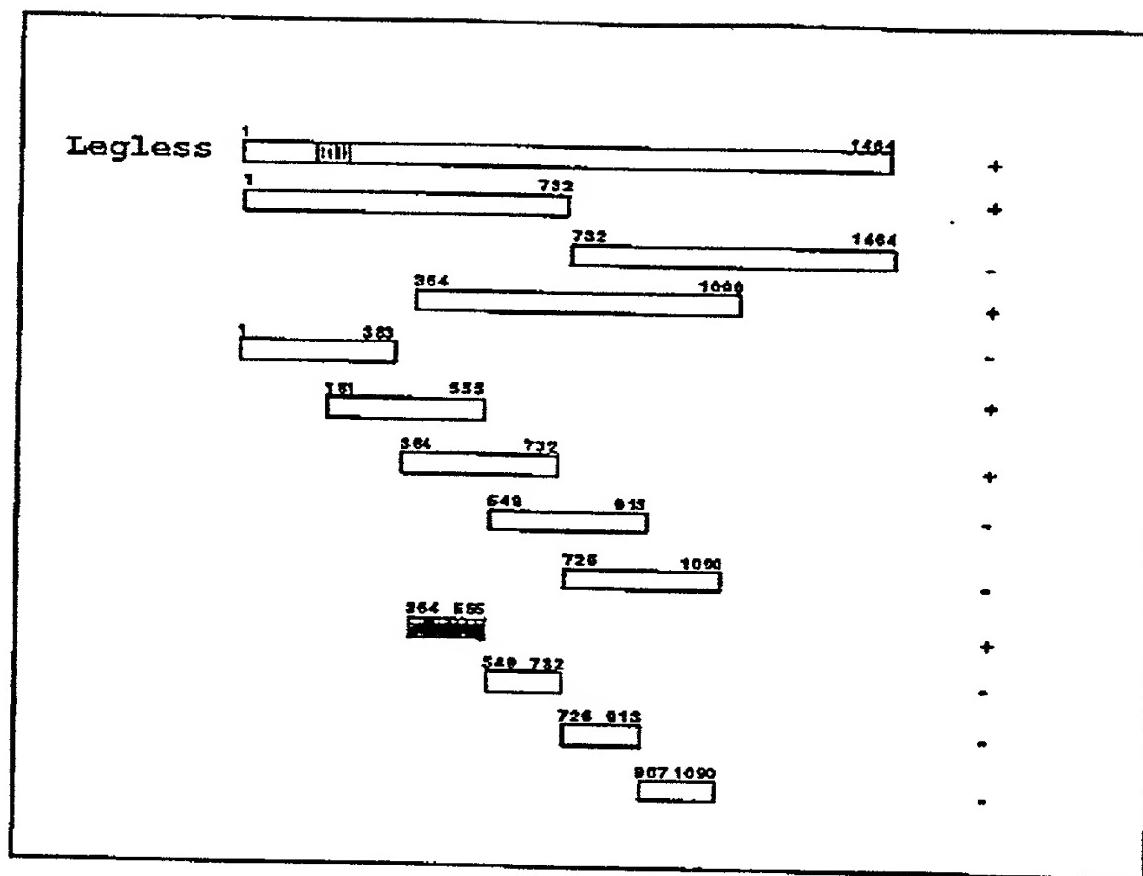


Figure 12B

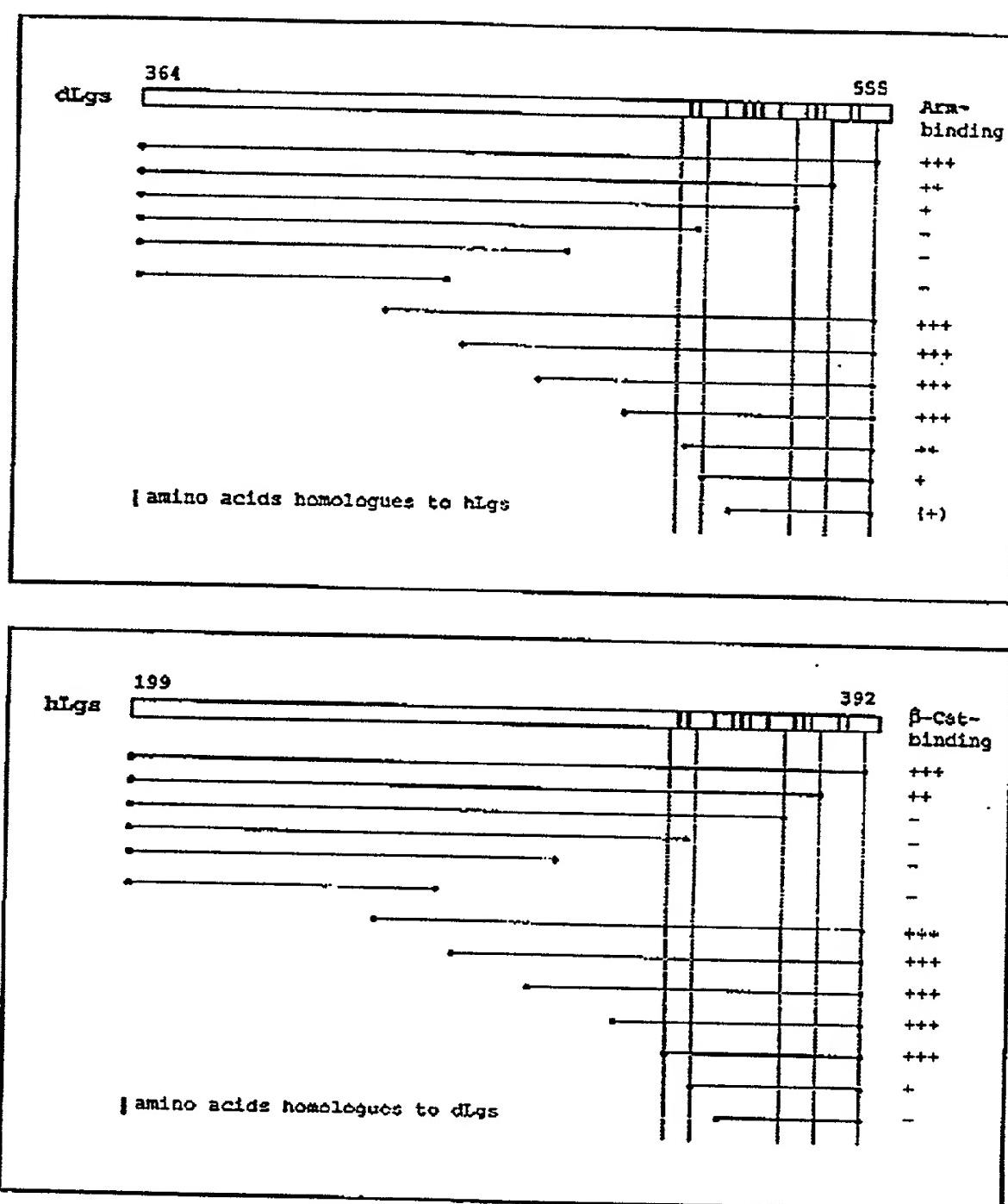
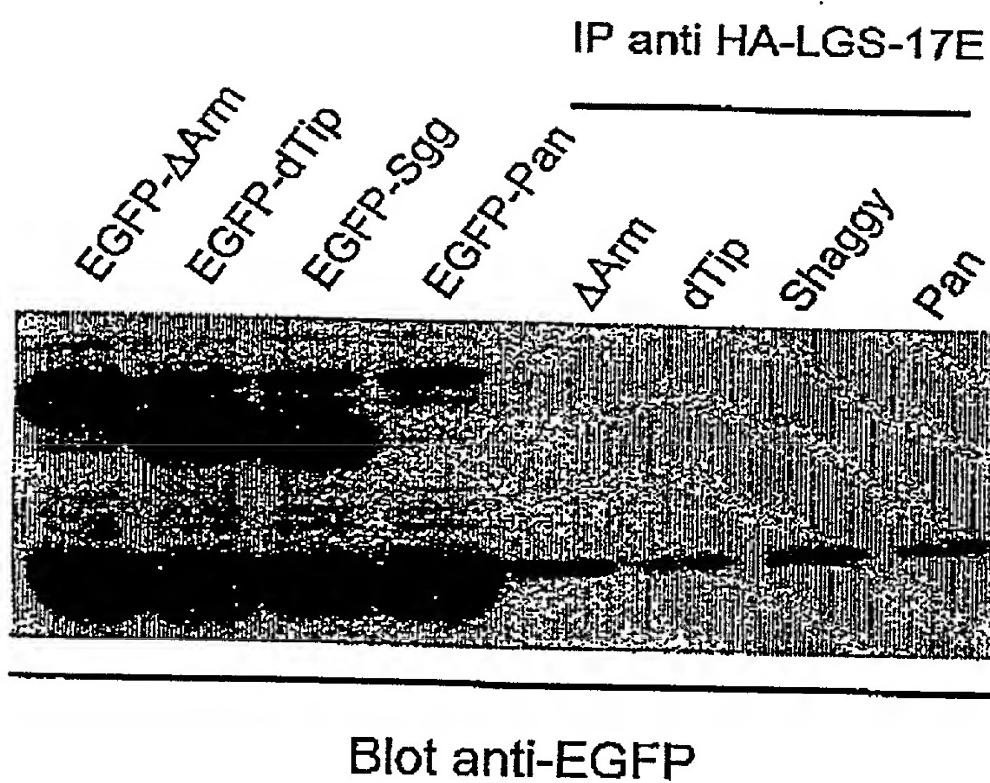


Figure 12C

		In vitro interaction
N	1 2 3 4 5 6 7 8 9 10 11 12 13	C ++
	1 2 3 4 5 6 7 8 9 10 11 12 13	C ++
		C -
N	1 2 3 4 5 6 7 8 9 10 11 12 13	++
N	1 2 3 4 5 6 7 8	+++
N	1 2 3 4 5 6	+++
N	1 2 3 4	++
N	1 2	-
	1 2 3 4 5 6 7 8 9 10 11 12 13	++
	1 2 3 4 5 6 7 8	+++
	1 2 3 4 5 6	+++
	1 2 3 4	++
	1 2	-
	3 4 5 6 7 8	(+)
	3 4 7 8	(-)
	7 8 9 10 11 12 13	(-)
	9 10 11 12 13	(-)

Figure 13

A



B

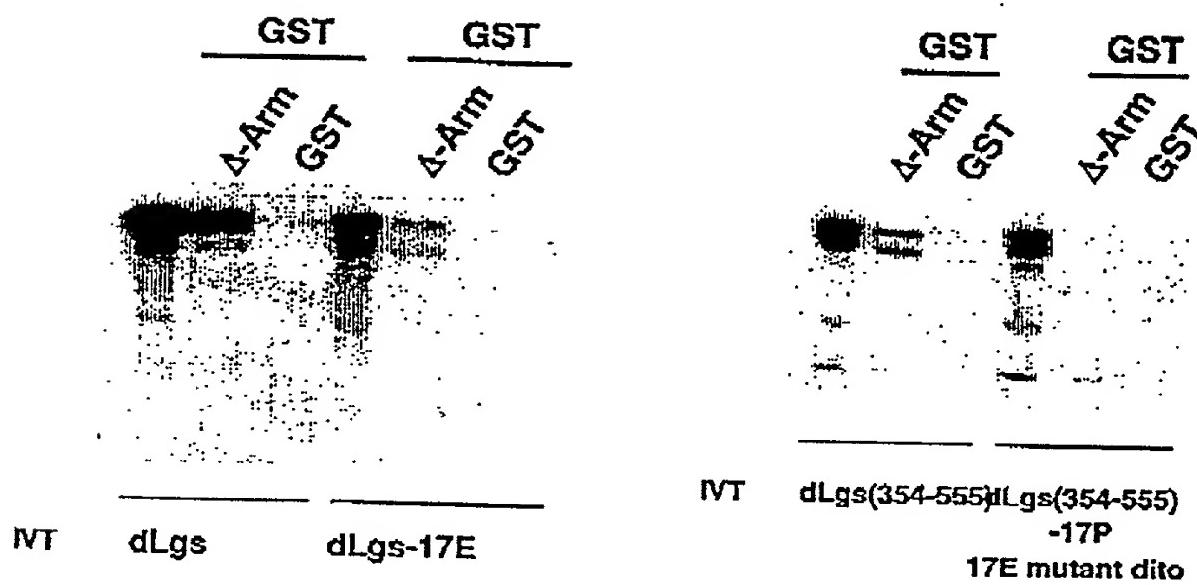
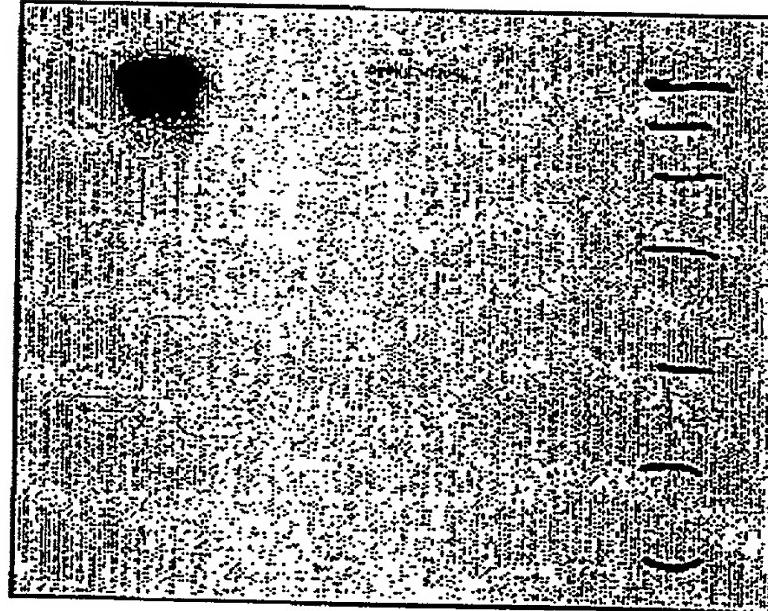


Figure 13

C

IVT GST GST-
input β -Cat

IVT-hLgs →



D

IVT GST GST-
input β -Cat

IVT-hLgsdn →

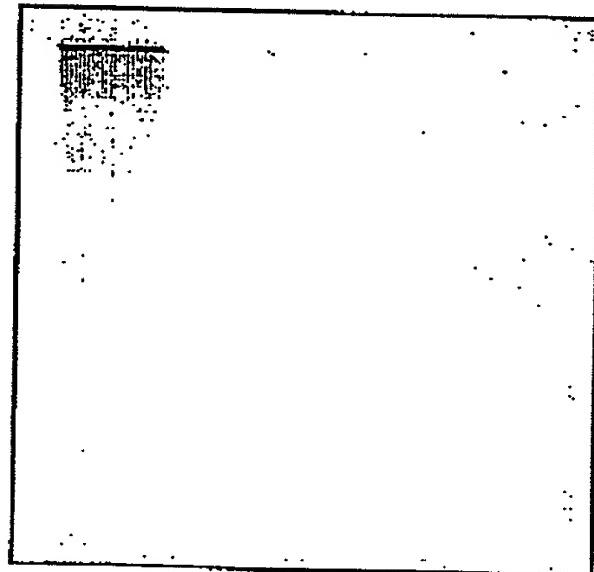
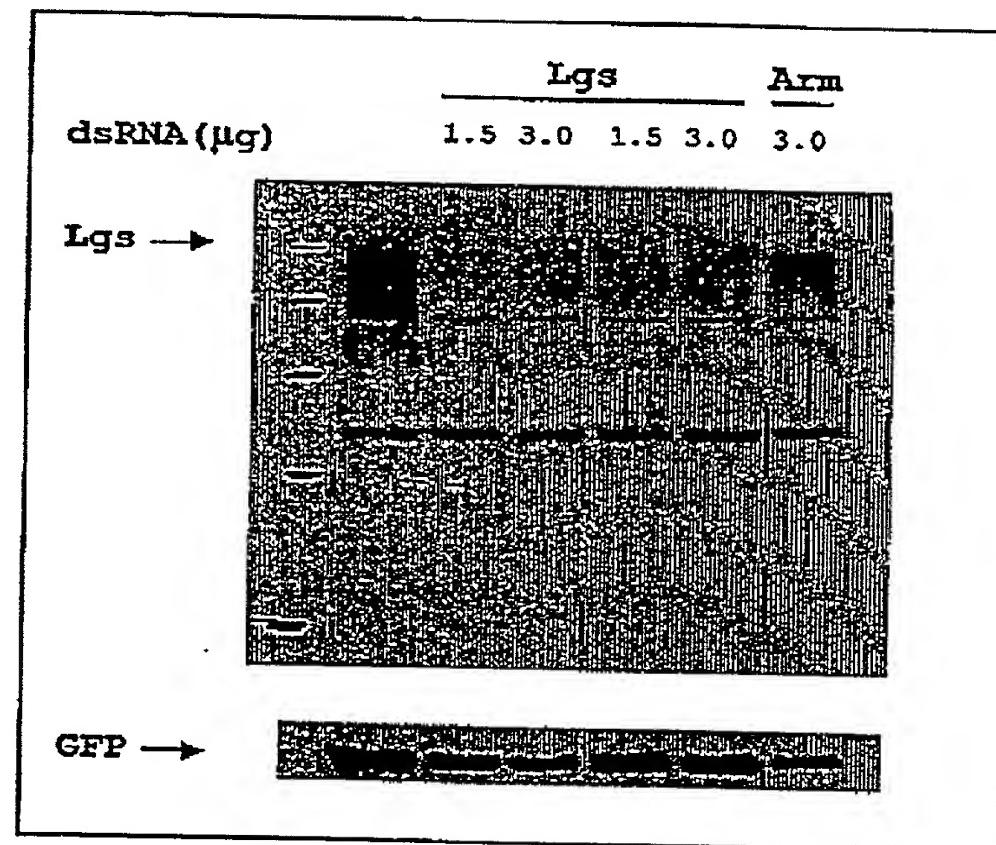
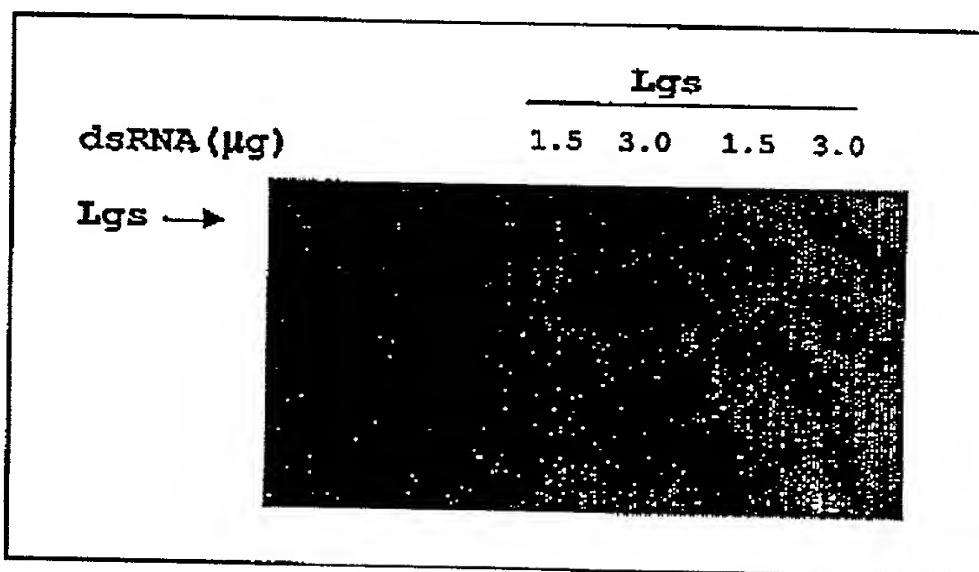


Figure 14



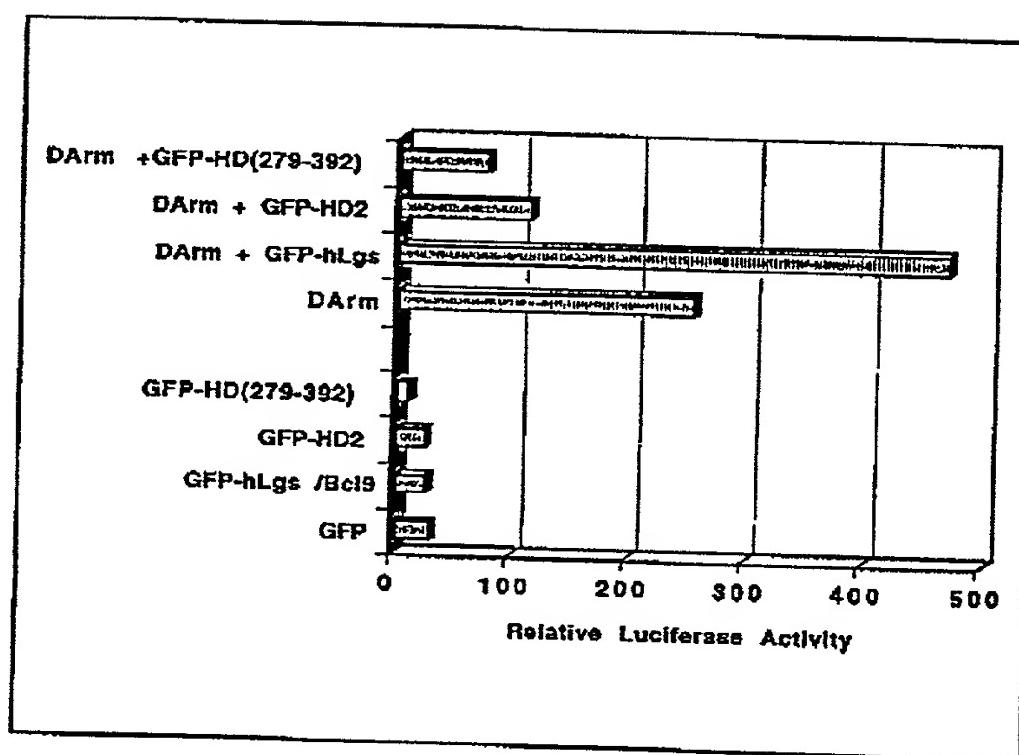
pMT-EGFP (μg) 1.5 1.5 1.5 1.5 1.5 1.5



pMT-dLgs (μg) - 2 2 2 2 2

Figure 15

A



B

